



Generate Collection

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L2: Entry 3 of 5

File: USPT

Mar 12, 2002

US-PAT-NO: 6356905

DOCUMENT-IDENTIFIER: US 6356905 B1

TITLE: System, method and article of manufacture for mobile communication utilizing an interface support framework

DATE-ISSUED: March 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gershman; Anatole Vitaly	Chicago	IL		
Swaminathan; Kishore Sundaram	Downers Grove	IL		
Meyers; James L.	Chicago	IL		
Fano; Andrew Ernest	Evanston	IL		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Accenture LLP	Palo Alto	CA			02

APPL-NO: 09/ 263252 [PALM]

DATE FILED: March 5, 1999

INT-CL: [07] G06 E 17/30

US-CL-ISSUED: 707/10; 707/3, 707/5, 707/102, 705/26, 705/35, 709/203, 709/219

US-CL-CURRENT: 707/10; 705/26, 705/35, 707/102, 707/3, 707/5, 709/203, 709/219

FIELD-OF-SEARCH: 707/3, 707/4, 707/10, 707/102, 707/5, 235/462, 235/472, 705/26, 705/35, 709/203, 709/219

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISS-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5067166	November 1991	Ito	382/37
<input type="checkbox"/>	5220625	June 1993	Hatakeyama et al.	382/54
<input type="checkbox"/>	5404510	April 1995	Smith et al.	395/600
<input type="checkbox"/>	5412806	May 1995	Du et al.	395/600
<input type="checkbox"/>	5471677	November 1995	Imanaka	395/600
<input type="checkbox"/>	5511190	April 1996	Sharma et al.	395/600
<input type="checkbox"/>	5778368	July 1998	Hogan et al.	707/10
<input type="checkbox"/>	5778378	July 1998	Rubin	707/103
<input type="checkbox"/>	5848404	December 1998	Hafner et al.	707/3
<input type="checkbox"/>	6169992	January 2001	Beall et al.	707/103
<input type="checkbox"/>	6269368	July 2001	Diamond	707/6
<input type="checkbox"/>	6285998	September 2001	Black et al.	707/4

#### OTHER PUBLICATIONS

"Deriving a Heuristic Function of an A\* Search for Optimal Reducers in Query Processing", IBM Technical Disclosure Bulletin, vol. 33, No. 7, Dec. 1990, pp. 454-457.

"Display of Graphical Query Results", IBM Technical Disclosure Bulletin, vol. 37, No. 11, Nov. 1994, pp. 225-227.

UNIT: 2175

PRIMARY-EXAMINER: Mizrahi; Diane D.

ASSISTANT-EXAMINER: Mofiz; Apu

ATTY-AGENT-FIRM: Hall; David A. Heller, Ehrman, White & McAuliffe

#### ABSTRACT:

A system and method associates a label and description with a search query such that the query, label, and description can be stored in a shared query repository so that queries can be retrieved by multiple users for reuse. The shared query repository can be searched, so that an appropriate query can be located, retrieved, and then submitted for execution over a document database by a search engine. Retrieved queries can be combined with other retrieved queries or modified with new search terms, and the new combined search query can be used for a new search on the database. The database search system and method efficiently permits reuse of search queries and facilitates sharing of search strategies.

34 Claims, 11 Drawing figures



Generate Collection

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L2: Entry 2 of 5

File: USPT

Oct 1, 2002

US-PAT-NO: 6460034

DOCUMENT-IDENTIFIER: US 6460034 B1

TITLE: Document knowledge base research and retrieval system

DATE-ISSUED: October 1, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wical; Kelly	San Carlos	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Oracle Corporation	Redwood Shores	CA			02

APPL-NO: 08/ 861961 [PALM]

DATE FILED: May 21, 1997

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 707/5

US-CL-CURRENT: 707/5

FIELD-OF-SEARCH: 707/1-5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5159667	October 1992	Borrey et al.	395/148
<input type="checkbox"/>	5167011	November 1992	Priest	395/54
<input type="checkbox"/>	5257185	October 1993	Farley et al.	364/419.19
<input type="checkbox"/>	5276616	January 1994	Kuga et al.	364/419.08
<input type="checkbox"/>	5325298	June 1994	Gallant	364/419.19
<input type="checkbox"/>	5369763	November 1994	Biles	395/600
<input type="checkbox"/>	5418948	May 1995	Turtle	707/4
<input type="checkbox"/>	5418961	May 1995	Segal et al.	707/1
<input type="checkbox"/>	5442780	August 1995	Takanashi et al.	395/600
<input type="checkbox"/>	5488725	January 1996	Turtle et al.	707/5
<input type="checkbox"/>	5544049	August 1996	Henderson et al.	704/7
<input type="checkbox"/>	5598557	January 1997	Doner et al.	707/5
<input type="checkbox"/>	5619709	April 1997	Caid et al.	707/532
<input type="checkbox"/>	5625767	April 1997	Bartell et al.	395/140
<input type="checkbox"/>	5630117	May 1997	Oren et al.	395/602
<input type="checkbox"/>	5630125	May 1997	Zellweger	395/614
<input type="checkbox"/>	5634051	May 1997	Thomson	707/5
<input type="checkbox"/>	5642502	June 1997	Driscoll	707/5
<input type="checkbox"/>	5675819	October 1997	Schuetze	704/10
<input type="checkbox"/>	5708829	January 1998	Kadashevich et al.	707/5
<input type="checkbox"/>	5717914	February 1998	Husick et al.	707/5
<input type="checkbox"/>	5721902	February 1998	Schultz	707/4
<input type="checkbox"/>	5724567	March 1998	Rose et al.	707/2
<input type="checkbox"/>	5761418	June 1998	Francis et al.	395/200.31
<input type="checkbox"/>	5768578	June 1998	Kirk et al.	707/100
<input type="checkbox"/>	5787234	July 1998	Molloy	706/46
<input type="checkbox"/>	5787417	July 1998	Hargrove	707/4
<input type="checkbox"/>	5819258	October 1998	Vaithyanathan et al.	707/2
<input type="checkbox"/>	5842206	November 1998	Sotomayor	707/5
<input type="checkbox"/>	5875446	February 1999	Brown et al.	707/3
<input type="checkbox"/>	5956708	September 1999	Dyko et al.	707/3
<input type="checkbox"/>	5963940	October 1999	Liddy et al.	707/5
<input type="checkbox"/>	5978799	November 1999	Hirsch	707/4
<input type="checkbox"/>	6006221	December 1999	Liddy et al.	707/5
<input type="checkbox"/>	6026388	February 2000	Liddy et al.	707/1

#### OTHER PUBLICATIONS

Liddy, Elizabeth D. et al., "DR-LINK System: Phase I Summary" Proceedings of the

TIPSTER, Syracuse Univ., NY, Sep. 1993, pp. 93-110, 110.\*  
Liddy, Elizabeth D. et al., "DR-LINK: A System Update For TREC-2," TREC Text Retrieval Conf, NIST, Wash., D.C., Aug. 1993, pp. 85-99.\*  
S. Al-Hawamdeh, "Compound Document Processing," Proc. of the 15<sup>th</sup> Annual Internat'l Computer Software & Applications Conf., Sep. 1991, p. 640-4.\*  
Cox, John "'Text-Analysis' Server to Simplify Queries", Communications Week, Apr. 19, 1993.

ART-UNIT: 2171

PRIMARY-EXAMINER: Von Buhr; Maria N.

ATTY-AGENT-FIRM: Stattler Johansen & Adeli LLP

ABSTRACT:

A knowledge base search and retrieval system, which includes factual knowledge base queries and concept knowledge base queries, is disclosed. A knowledge base stores associations among terminology/categories that have a lexical, semantical or usage association. Document theme vectors identify the content of documents through themes as well as through classification of the documents in categories that reflects what the documents are primarily about. The factual knowledge base queries identify, in response to an input query, documents relevant to the input query through expansion of the query terms as well as through expansion of themes. The concept knowledge base query does not identify specific documents in response to a query, but specifies terminology that identifies the potential existence of documents in a particular area.

25 Claims, 22 Drawing figures



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L2: Entry 1 of 5

File: USPT

Nov 19, 2002

US-PAT-NO: 6484162

DOCUMENT-IDENTIFIER: US 6484162 B1

TITLE: Labeling and describing search queries for reuse

DATE-ISSUED: November 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edlund; Stefan B.	Sunnyvale	CA		
Emens; Michael Lawrence	San Jose	CA		
Kraft; Reiner	Morgan Hill	CA		
Yim; Peter Chi-Shing	San Francisco	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 09/ 342991 [PALM]

DATE FILED: June 29, 1999

INT-CL: [07] G06 E 17/30

US-CL-ISSUED: 707/3; 707/5

US-CL-CURRENT: 707/3; 707/5

FIELD-OF-SEARCH: 707/1, 707/3, 707/9, 707/10, 707/4, 707/104, 707/5, 707/500, 707/533, 707/2, 707/103, 707/6, 382/54, 705/10, 705/26, 705/2, 705/35, 705/39, 706/45, 706/46, 709/229, 709/313

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5279882	January 1994	Daude et al.	428/192
<input type="checkbox"/>	5519608	May 1996	Kupiec	364/419.08
<input type="checkbox"/>	5606602	February 1997	Johnson et al.	379/115
<input type="checkbox"/>	5640193	June 1997	Wellner	348/7
<input type="checkbox"/>	5673322	September 1997	Pepe et al.	389/49
<input type="checkbox"/>	5732074	March 1998	Spaur et al.	370/313
<input type="checkbox"/>	5850442	December 1998	Muftic	380/21
<input type="checkbox"/>	5854624	December 1998	Grant	345/169
<input type="checkbox"/>	5913210	June 1999	Call	707/4
<input type="checkbox"/>	5937163	August 1999	Lee et al.	395/200.48
<input type="checkbox"/>	5938727	August 1999	Ikeda	709/218
<input type="checkbox"/>	5950173	September 1999	Perkowski	705/26
<input type="checkbox"/>	5971277	October 1999	Cragun et al.	235/462.01
<input type="checkbox"/>	5978773	November 1999	Hudetz et al.	705/23
<input type="checkbox"/>	5979757	November 1999	Tracy et al.	235/383
<input type="checkbox"/>	5992752	November 1999	Wilz, Sr. et al.	235/472.01
<input type="checkbox"/>	6134548	October 2000	Gottzman et al.	707/5
<input type="checkbox"/>	6202062	March 2001	Cameron et al.	707/3

# FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 853 287	July 1998	EP	
0883313	December 1998	EP	
0890907	January 1999	EP	
WO 97/17815	May 1997	WO	
WO/97/40451	October 1997	WO	
WO 97/45814	December 1997	WO	
WO 98/03923	January 1998	WO	
WO 98/06055	February 1998	WO	
WO 98/10541	March 1998	WO	
WO 98/11744	March 1998	WO	
WO 98/12833	March 1998	WO	
WO 98/24036	June 1998	WO	
WO 98/24050	June 1998	WO	
98/35469	August 1998	WO	
WO 98/39909	September 1998	WO	
WO 98/40823	September 1998	WO	
WO 98/49813	November 1998	WO	
WO 98/52371	November 1998	WO	
98/47295	December 1998	WO	
WO 98/57474	December 1998	WO	
WO 98/58476	December 1998	WO	
WO 99/01969	January 1999	WO	

## OTHER PUBLICATIONS

D. Brugali, "Techniques to build and reuse assets", Practical Software Reuse, ESSI-Surprise 1998, pp. 7-1 to 7-11.

D. Brugali et al., "Agent technology: a new frontier for the development of application frameworks?", Object-Oriented Application Frameworks, Wiley 1998, 9 pp.

Falchuk et al., "AgenSys: A Mobile Agent System for Digital Media Access and Interaction on an Internet", Univ. of Ottawa, Dept. of El. and Comp. Eng., 1997, pp. 1876-1880.

U. S. patent application Ser. No. 09/263,969, filed Mar. 5, 1999, "Mobile Communication and Computing System and Method".

U. S. patent application Ser. No. 09/263,927, filed Mar. 5, 1999, "Mobile Communication System and Method for A Shopper Agent".

U. S. patent application Ser. No. 09/263,926, filed Mar. 5, 1999, "A System, Method and Article of Manufacture for Advanced Mobile Health Care Processing".

U. S. patent application Ser. No. 09/263,920, filed Mar. 5, 1999, "Dynamic Configuration System and Method for A Mobile Communication Network".

U. S. patent application Ser. No. 09/263,251, filed Mar. 5, 1999, "A System for Utilizing A Transaction Interface in A Mobile Communication Network".

U. S. patent application Ser. No. 09/272,828, filed Mar. 19, 1999, "System and Method for Inputting, Retrieving, Organizing and Analyzing Data".

Bob Emmerson; The Mobile Intranet: The next generation of GSM services will offer faster data rates and smarter messaging; May 1998; BYTE Magazine, pp. 1-7.

Timo Alanko, Markku Kojo, Mika Liljeberg, Kimmo Raatikainen; Mobile access to the Internet: a mediator-based solution; Internet Research: Electronic Networking Applications and Policy vol. 9, No. 1, pp. 58-65, 1999.

Andrezej Duda, Stephane Perret; A Network Programming Model for Mobile Applications and Information Access; Proceedings JENC7, pp. 141.1-149.9, DATE 7.

Chu-Sing Yang, Kun-da Wu, Chun-Wei Tseng; Support an Efficient Connection for Mobile IP; Proceedings, Ninth International Workshop on Database and Expert Systems Applications; Aug. 1998, IEEE, Computer Society, pp. 514-519.

Mary Cameron Cupito; Emerging technologies: Has Their time come? Enterprise Integration; Health Management Technology; Dec. 1998, pp. 12-16.

Toh Han Shih; Online life-line; Wired for Business; Singapore Business Times; Dec. 1998, pp. ?.

Chris Bradley; Remote and Mobile Computing With TCP/IP; Enterprise Systems Journal; pp. 38-48.

Enhanced Services: Telecom customers will soon have one-stop, easy-to-use access to their services portfolio form anywhere, at any time, and in any way; EDGE, on & about AT&T; May 1997, pp. 1-2, Authors?.

Nokia, Ericsson, Unwired Planet and Motorola unite to create an open common protocol for interactive wireless applications; Jun. 26, 1997, pp. 1-3.

Unisource in GSM trial of mobile electronic banking and shopping; Mobile Communications; Mar. 20, 1997, pp. 1-3, Authors?.

Dynamic Mobile Data Announces Mobile Server Wireless Solution For Enterprise and internet Access; Mar. 1999, pp. 1-2, Authors?.

Philip R. Cohen, Adam Cheyer, Michelle Wang, Soon Cheol Baeg; An Open Agent Architecture; Software Agent Papers, AAAI Spring Symposium 1994, pp. 1-129.

Katia Sycara, Anandeeep S. Pannu; The RETSINA Multiagent System: Towards Integrating Planning, Execution and Information Gathering; Proceedings of the Second International Conference on Autonomous Agents, May 1998, pp. 350-351.

ART-UNIT: 2777

PRIMARY-EXAMINER: Homere; Jean R.

ATTY-AGENT-FIRM: Morrison & Foerster LLP

### ABSTRACT:

A system is disclosed that facilitates web-based information retrieval and display system. A wireless phone or similar hand-held wireless device with Internet Protocol capability is combined with other peripherals to provide a portable portal into the Internet. The wireless device prompts a user to input information of interest to the user. This information is transmitted a query to a service routine (running on a Web server). The service routine then queries the Web to find price, shipping and availability information from various Web suppliers. This information is then available for use by various applications through an interface support framework.



18 Claims, 30 Drawing figures



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L2: Entry 4 of 5

File: USPT

Nov 27, 2001

US-PAT-NO: 6324536

DOCUMENT-IDENTIFIER: US 6324536 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method and system for providing interactive electronic catalog for product  
and constraint information of equality and inequality search

DATE-ISSUED: November 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rofrano, John J.	Mahopac	NY		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 08/ 977203 [PALM]

DATE FILED: November 24, 1997

## PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATION The present application claims priority to co-pending U.S. Provisional Application Serial No. 60/053,345 which was filed on Jul. 22, 1997.

INT-CL: [07] G06 F 17/30

US-CL-ISSUED: 707/5; 707/3, 707/102, 707/104, 705/26, 705/27, 345/968

US-CL-CURRENT: 707/5; 345/968, 705/26, 705/27, 707/102, 707/104.1, 707/3

FIELD-OF-SEARCH: 707/1, 707/2, 707/3, 707/4, 707/5, 707/6, 707/7, 707/8, 707/9,  
707/10, 707/100-104, 707/501, 707/513, 707/516, 707/908, 707/526, 707/500, 705/10,  
705/22, 705/27, 705/28, 705/26, 345/333-335, 345/968

## PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5410692	April 1995	Torres	707/3
<input type="checkbox"/>	5710887	January 1998	Chelliah et al.	705/26
<input type="checkbox"/>	5715444	February 1998	Danish et al.	707/4
<input type="checkbox"/>	5734888	March 1998	Li et al.	707/4
<input type="checkbox"/>	5740425	April 1998	Povilus	707/100
<input type="checkbox"/>	5751286	May 1998	Barber et al.	345/348
<input type="checkbox"/>	5761655	June 1998	Hoffiman	707/4
<input type="checkbox"/>	5819092	October 1998	Ferguson et al.	395/701
<input type="checkbox"/>	5832496	November 1998	Anand et al.	707/102
<input type="checkbox"/>	6076091	June 2000	Fohn et al.	707/102

ART-UNIT: 217

PRIMARY-EXAMINER: Choules; Jack

ASSISTANT-EXAMINER: Channavajjala; Srirama

ATTY-AGENT-FIRM: Ellenbogen; Wayne L. Dougherty; Anne Vachon

ABSTRACT:

A system for collecting, categorizing and searching metadata about products which may be the subject of user-input inequality searches. Unique methods are provided for: generating image information at the user interface; inputting of the inequality search; conducting an inequality search based on the metadata in response to input at the user interface; and; displaying the search results appropriately.

21 Claims, 6 Drawing figures

## End of Result Set



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L2: Entry 5 of 5

File: USPT

Sep 28, 1999

US-PAT-NO: 5960411

DOCUMENT-IDENTIFIER: US 5960411 A

TITLE: Method and system for placing a purchase order via a communications network

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hartman; Peri	Seattle	WA		
Bezos; Jeffrey P.	Seattle	WA		
Kaphan; Shel	Seattle	WA		
Spiegel; Joel	Seattle	WA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Amazon.com, Inc.	Seattle	WA			02

APPL-NO: 08/ 928951 [PALM]

DATE FILED: September 12, 1997

INT-CL: [06] G06 F 17/60

US-CL-ISSUED: 705/26; 705/27, 345/962

US-CL-CURRENT: 705/26; 345/962, 705/27

FIELD-OF-SEARCH: 705/26, 705/27, 380/24, 380/25, 235/2, 235/375, 235/378, 235/381, 395/188.01, 345/962

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

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	PAT-NO	ISS-DATE	PATENTEE-NAM	US-CL
<input type="checkbox"/>	4937863	June 1990	Robert et al.	380/4
<input type="checkbox"/>	5204897	April 1993	Wyman	380/4
<input type="checkbox"/>	5260999	November 1993	Wyman	384/4
<input type="checkbox"/>	5627940	May 1997	Rohra et al.	395/12
<input type="checkbox"/>	5640501	June 1997	Turpin	395/768
<input type="checkbox"/>	5640577	June 1997	Scharmer	395/768
<input type="checkbox"/>	5664111	September 1997	Nahan et al.	705/27
<input type="checkbox"/>	5715314	February 1998	Payne et al.	380/24
<input type="checkbox"/>	5715399	February 1998	Bezos	705/27
<input type="checkbox"/>	5727163	March 1998	Bezos	705/27
<input type="checkbox"/>	5745681	April 1998	Levine et al.	395/200.3
<input type="checkbox"/>	5758126	May 1998	Daniels et al.	395/500

#### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0855687 A2	January 1998	EP	
0855659 A1	January 1998	EP	
0845747A2	June 1998	EP	
0883076A2	December 1998	EP	
WO 95/30961	November 1995	WO	
WO 96/38799	December 1996	WO	
WO 98/21679	May 1998	WO	

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Jones, Chris. "Java Shopping Cart and Java Wallet; Oracles plans to join e-commerce initiative." Mar. 31, 1997, InfoWorld Media Group.

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<http://www.w3u.com/grokksoft/shop/perlman.html>. [Accessed Nov. 19, 1998].

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Baron, Chris and Bob Weil, "Implementing a Web Shopping Cart," Dr. Dobb's Journal, Sep. 1996, pp. 64, 66, 68-69, and 83-85.

Hoque, Reaz, "A Shopping Cart Application with JavaScript," Web Techniques, May 1998, pp. 63, 65-66, and 68.

ART-UNIT: 274

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Smith; Demetra R.

ATTY-AGENT-FIRM: Perkins Coie LLP

ABSTRACT:

A method and system for placing an order to purchase an item via the Internet. The order is placed by a purchaser at a client system and received by a server system. The server system receives purchaser information including identification of the purchaser, payment information, and shipment information from the client system. The server system then assigns a client identifier to the client system and associates the assigned client identifier with the received purchaser information. The server system sends to the client system the assigned client identifier and an HTML document identifying the item and including an order button. The client system receives and stores the assigned client identifier and receives and displays the HTML document. In response to the selection of the order button, the client system sends to the server system a request to purchase the identified item. The server system receives the request and combines the purchaser information associated with the client identifier of the client system to generate an order to purchase the item in accordance with the billing and shipment information whereby the purchaser effects the ordering of the product by selection of the order button.

26 Claims, 12 Drawing figures